

Technical Data Sheet: CULTEX® DG Dust Generator



The Airborne Exposure Experts



The computer-controlled CULTEX® DG is a precise and fully adjustable dust generator, based on the dust feeder according to Wright (1950). The device is recommended as essential peripheral equipment for the exposure of cells to dry powder aerosols.

In combination with the CULTEX® RFS and the CULTEX® Hydraulic Press, the CULTEX® DG completes the optimal setup for *in vitro* exposure to particles. The included elutriator enables the user to control the size of the delivered particles to under 10 µm.

Especially designed for *in vitro* exposure systems, the CULTEX® DG is able to provide uniform airborne concentrations of dust for long periods of time.



General features

- Generates dry powder aerosols
- Uniform airborne concentration
- High stability over hours
- Selectable feed rate (from 0.24 mm/h to 20.19 mm/h)
- Selectable rotation speed (0–800 turns/h)
- Computer controlled
- All components made from inert material
- Easy handling
- Easy cleaning
- Specially designed reservoir to remove larger particles
- Requires press (e.g. CULTEX® HyP · Hydraulic Press)

Application areas

- Dry powders (up to 9.8 µm particle size)

Clients

- Universities
- Public health institutions
- Military
- Pharmaceutical and chemical industry
- Contract research laboratories

System information

Modular design

- Aerosol generator top
- Substance container
- Elutriator
- Computer with control software

Basic requirements

- 2 x Power supply
- Compressed air supply (3 bar, 5–20 L/min)

Generation type

- Dust feeder according to Wright (1950)
- Dry powder aerosol from compressed material
- Compressed substance is scraped off with a rotating plate



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